

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Yee Loong Chin, et al.

Serial No.:

Examiner:

Filing Date: 03/26/2004

Group Art Unit:

Title: POLAROID ABSOLUTE ENCODER

COMMISSIONER FOR PATENTS  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:  
☐ Statement under 37 CFR 1.97(e), or  
☐ a \$180.00 Processing fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:  
☐ Statement under 37 CFR 1.97(e), and  
☐ a \$180.00 processing fee under 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account **50-1078** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **50-1078** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449. References identified with an asterisk (\*) were disclosed in Patent Application No. \_\_\_\_\_ filed \_\_\_\_\_, now U. S. Patent No. \_\_\_\_\_, and, as such, copies thereof are not included pursuant to the provisions of 37 CFR 1.98(d).

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

"Express Mail" label no. **EV428358099US**

Date of Deposit **03/26/2004**

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Washington, D.C. 20231.

By Anthony Chou  
Typed Name: Anthony Chou

Respectfully submitted,

Yee Loong Chin, et al.

By James P. Hao  
James P. Hao

Attorney/Agent for Applicant(s)  
Reg. No. **36,398**

Date: **03/26/2004**

<b>FORM PTO-1449</b>  <b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	70030949-1	
	APPLICANT <b>Yee Loong CHIN, et al.</b>	
	FILING DATE	GROUP
	03/26/2004	

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME
		5,774,074	06/30/1998	Eugene A. Cooper, et al.
		4,691,101	09/01/1987	Mark G. Leonard
		4,952,799	08/28/1990	Victor D. Loewen
		6,653,619	11/25/2003	Yee Loong Chin, et al.

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

	"Dynamic Resolution for Optical Encoders", by Robert M. Setbacken. (6pp) <a href="http://www.renco.com/106016.htm">http://www.renco.com/106016.htm</a>
	"Optical Encoder Design and Operation". From: Engineering Resources for Motion Control Systems. (8pp) <a href="http://www.motion-control-info.com/encoder_design_guide.html">http://www.motion-control-info.com/encoder_design_guide.html</a>
	"Quick Assembly Two and Three Channel Optical Encoders". From HP, Technical Data. (12pp)

EXAMINER	DATE CONSIDERED
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\* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

FORM PTO-1449

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## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

		"Two and Three Channel Codewheels for use with Agilent Optical Encoder Modules". From: Agilent, Technical Data. (12pp)

EXAMINER	DATE CONSIDERED
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